MITSUBISHI

AJ65SBT-CLB CC-Link-CC-Link/LT Bridge Module

User's Manual
(Hardware)

AJ65SBT-CLB

Thank you for buying the Mitsubishi programmable controller MELSEC Series

Prior to use, please read both this manual and detailed manual thoroughly to fully understand the product.

MODEL	AJ65SBT-CLB-U-HW
MODEL CODE	13JP11
IB(NA)-0800240-F(1206)MEE	

© 2002 MITSUBISHI ELECTRIC CORPORATION

● SAFETY PRECAUTIONS ●

(Read these precautions before using this product.)

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.
These precautions apply only to this equipment.
Refer to the user's manual of the CPU module to use for a description of the programmable controller system safety precautions.

In this manual, the safety precautions are classified into two levels:
"⚠ WARNING " and "⚠ CAUTION".

⚠ WARNING	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠ CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "⚠ CAUTION" may lead to serious consequences.
Observe the precautions of both levels because they are important for personal and system safety.
Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

[Design Precautions]

⚠ WARNING

● When there are communication problems with the data link, the data for the master module will be held.
Configure an interlocking circuit in a sequence program so that the safety of the overall system is always maintained.

[Design Precautions]

⚠ CAUTION

- Do not bunch the control wires or communication cables with the main circuit or power wires, or install them close to each other.
  They should be installed 100mm (3.9inch) or more from each other.
  Not doing so could result in noise that would cause erroneous operation.
- Do not write data to the "reserved areas" of the remote I/O and remote devices.
  Doing so can pose the risk of malfunctioning the product.

[Installation Precautions]

⚠ CAUTION

- Use each product in an environment as specified in the "general specification" in the detailed manual.
  Using the programmable controller outside the range of the general specifications may result in electric shock, fire or malfunction, or may damage or degrade the product.
- Securely fix the product to a DIN rail or securely fix it with the Module mounting screw.
  Not doing so can cause a drop or malfunction.
- Do not touch the conducted area or electric parts of the product.
  Doing so may cause product malfunctioning or breakdowns.

[Wiring Precautions]

⚠ CAUTION

- For the CC-Link/LT, use the cables specified by the CC-Link Partner Association. The performance of the CC-Link/LT cannot be assured if any other cables than the specified are used.
  Also, observe the network wiring specifications given in Chapter 2. Normal data communication is not guaranteed if the wiring is not conducted according to the specifications.
- Be sure to shut off all phases of the external power supply used by the system before installation or wiring.
  Not doing so can cause the product to be damaged or malfunction.
- Always ground the FG terminal to the protective ground conductor.
  Not doing so can cause a malfunction.
- Tighten the terminal screws within the specified torque range. Undertightening can cause short circuit, or malfunction. Overtightening can cause damage to the screw and/or the module, resulting in drop, short circuit, or malfunction.
- Wire the product correctly after confirming the rated voltage and pin layout of the product.
  Not doing so can cause a fire or failure.
- Ensure that no foreign matter such as chips and wire-offcuts enter the product.
  Foreign matter can cause a fire, failure or malfunction.
- Be sure to fix the wires or cables by ducts or clamps when connecting them to the module. Failure to do so may cause damage of the module or the cables due to accidental pull or unintentional shifting of the cables, or malfunctions due to poor contact of the cable.
- Do not install the control lines together with the communication cables, or bring them close to each other. Failure to do so may cause malfunctions due to noise.
- When disconnecting the communication and power supply cables from the module, do not hold and pull the cable part.
  Disconnect the cables after loosening the screws in the portions connected to the module. Pulling the cables connected to the module can damage the module and cables or can cause a malfunction due to a cable connection fault.

[Starting and Maintenance Precautions]

⚠ CAUTION

- Do not touch the pin while the power is on. Doing so may cause malfunction.
- Be sure to shut off all phases of the external power supply used by the system before cleaning.
  Not doing so can cause the product to fail or malfunction.
- Never disassemble or modify the product.
  This may cause breakdowns, malfunctioning, injury and/or fire.
- Do not drop the product or give it hard impact since its case is made of resin. Doing so can damage the product.
- Be sure to shut off all phases of the external power supply used by the system before mounting or dismounting the product to or from the panel.
  Not doing so can cause the product to fail or malfunction.
- Before handling the module, touch a conducting object such as a grounded metal to discharge the static electricity from the human body. Failure to do so may cause the module to fail or malfunction.

[Disposal Precautions]

⚠ CAUTION

- When disposing of this product, treat it as industrial waste.

● CONDITIONS OF USE FOR THE PRODUCT ●

(1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.
MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT.
("Prohibited Application")
Prohibited Applications include, but not limited to, the use of the PRODUCT in;
- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi representative in your region.

REVISIONS

*The manual number is given on the bottom right of the cover.

Print date	*Manual number	Revision
Oct.,2002	IB(NA)-0800240-A	First edition
Nov.,2004	IB(NA)-0800240-B	Correction SAFETY PRECAUTIONS, Section 2.1, 5.1.4, 5.1.5
Apr.,2008	IB(NA)-0800240-C	Correction Manuals, Compliance with the EMC Directive and the Low Voltage Directive, Section 2.1, 2.2.1, 5.1
Aug.,2010	IB(NA)-0800240-D	Addition CONDITIONS OF USE FOR THE PRODUCT, Warranty Correction SAFETY PRECAUTIONS, Compliance with the EMC Directive and the Low Voltage Directive
Dec.,2011	IB(NA)-0800240-E	Addition SAFETY PRECAUTIONS (Chinese) Correction COMPLIANCE WITH EMC AND LOW VOLTAGE DIRECTIVES
Jun.,2012	IB(NA)-0800240-F	Correction Section 5.1.1

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

© 2002 MITSUBISHI ELECTRIC CORPORATION

CONTENTS

1. OVERVIEW 1
2. SPECIFICATION 2
2.1 Performance specifications 2
2.2 Network wiring specifications 4
2.2.1 CC-Link network wiring specifications 4
2.2.2 CC-Link/LT network wiring specifications 4
3. PART NAMES AND SETTING 5
4. MOUNTING AND INSTALLATION 9
4.1 Handling instruction 9
4.2 Installation environment 9
5. WIRING 10
5.1 Wiring of data link cables 10
5.1.1 Connection of the CC-Link dedicated cables 10
5.1.2 How to wire the CC-Link one-touch connector plug 11
5.1.3 Connection of modules by CC-Link/LT connection cables 11
5.1.4 How to mount the CC-Link/LT connection cable connector 11
6. EXTERNAL DIMENSIONS 12

MANUAL

The following table list the manuals related to this product.
You can order it as necessary.

Detailed Manual

Manual name	Manual number (Model code)
AJ65SBT-CLB CC-Link - CC-Link/LT Bridge Module User's Manual	SH-080362E (13R63)

Related Manuals

Manual name	Manual number (Model code)
CC-Link System Master/Local Module Type AJ61BT11/A1SJ61BT11 User's Manual	IB-66721 (13J872)
CC-Link System Master/Local Module Type AJ61QBT11/A1SJ61QBT11 User's Manual	IB-66722 (13J873)
MELSEC-Q CC-Link System Master/Local Module User's Manual	SH-080394E (13JR64)
MELSEC-L CC-Link System Master/Local Module User's Manual	SH-080895ENG (13JZ41)
Type A80BDE-J61BT11 CC-Link System Master/Local Interface Board User's Manual (For SW4DNF-CCLINK-B)	IB-0800175 (13JR28)
Type Q80BD-J61BT11N CC-Link System Master/Local Interface Board User's Manual (For SW1DNC-CCBD2-B)	SH-080527ENG (13JR77)

COMPLIANCE WITH EMC AND LOW VOLTAGE DIRECTIVES

(1) Method of ensuring compliance

To ensure that Mitsubishi programmable controllers maintain EMC and Low Voltage Directives when incorporated into other machinery or equipment, certain measures may be necessary. Please refer to one of the following manuals.

- User's manual for the CPU module or head module used
- Safety Guidelines
  (This manual is included with the CPU module, base unit, or head module.)

The CE mark on the side of the programmable controller indicates compliance with EMC and Low Voltage Directives.

(2) Additional measures

- To ensure that this product maintains EMC and Low Voltage Directives, please refer to one of the manuals listed under (1).
- The product is tested for compliance in Zone B[*1] (except for the CC-Link/LT interface part, which is tested in Zone A[*1]).

*1: Zone defines categories according to industrial environment, specified in the EMC and Low Voltage Directives, EN61131-2.

Zone C: Factory mains (isolated from public mains by dedicated transformer)

Zone B: Dedicated power distribution, secondary surge protection (rated voltage: 300V or less)

Zone A: Local power distribution, protected from dedicated power distribution by AC/DC converter and insulation transformer (rated voltage: 120V or less)

1. OVERVIEW

This manual describes the specifications, part names, settings, etc. of the AJ65SBT-CLB CC-Link - CC-Link/LT bridge module (hereafter abbreviated to the AJ65SBT-CLB) used as a remote device station in a CC-Link system.

After unpacking, confirm that the following product is contained.

Item name	Number of items
AJ65SBT-CLB CC-Link - CC-Link/LT bridge module	1

2. SPECIFICATION

2.1 Performance specifications

The following table indicates the performance specifications of the AJ65SBT-CLB.
Refer to the detailed manual for the general specifications.

Item			Specifications		
CC-Link side	Station type		Remote device station		
	CC-Link Version		Ver.1.10		
	Communication method		Broadcast polling method		
	Number of occupied stations	2 stations	64 points each for RX and RY (16 points are used in the system), 8 points each for RWr and RWw		
		4 stations	128 points each for RX and RY (16 points are used in the system), 16 points each for RWr and RWw		
		8 stations (4 occupied stations × 2 modules)	256 points each for RX and RY (32 points are used in the system), 32 points each for RWr and RWw		
	AJ65SBT-CLB connection position		No restrictions		
	External connection system		One-touch connector for communication [transmission circuit] (5-pin, insulation displacement type connector plug is sold separately) <Option> Online connector for communication: A6CON-LJ5P		
CC-Link/LT side	Point mode		4-point mode	8-point mode	16-point mode
	Control specifications	Maximum number of link points Number in parentheses assumes use of the same I/O addresses	224 points (448 points)		
		Number of link points per station Number in parentheses assumes use of the same I/O addresses	4 points (8 points)	8 points (16 points)	16 points (32 points)
	Communication specifications	Transmission speed	2.5Mbps/625kbps/156kbps		
		Communication method	Broadcast polling method		
		Transmission path format	T-branch system		
		Error control system	CRC		
		Number of connected modules	56 modules		
		Remote station number	1 to 56		
		AJ65SBT-CLB connection position	Connected at the end of the main line		
		RAS functions	Network diagnosis, internal loopback diagnosis, slave station separation, automatic return to system		
		Connection cable*1	Dedicated flat cable ($0.75mm^2 \times 4$)*4, VCTF cable*3, High flexible cable*4		

Item			Specifications
Common	Module mounting screw		M4×0.7mm×16mm or more screw Tightening torque range 0.78 to 1.08 N•m DIN rail can also be used for mounting.
	Module mounting direction		Can be mounted in any of six orientations. (No restrictions on mounting directions)
	24VDC power supply *2	Voltage	24VDC externally supplied (20.4VDC to 26.4VDC, ripples within 5%)
		Current consumption	0.075A (24VDC)
		Start-time current	0.165A (24VDC)
	Level of protection		IP2X
	Weight		0.09kg

*1 Performance of the CC-Link/LT cannot be guaranteed for use of cables other than the dedicated flat cables, VCTF cables and high flexible cables.
*2 Supplied by a CC-Link/LT dedicated power supply or power supply adaptor.
*3 For VCTF cable specifications, see Table 2.1.
*4 Use the dedicated flat cables and high flexible cables accredited by the CC-Link Partner Association.
CC-Link Partner Association's website: http://www.cc-link.org/

Table 2.1 VCTF cable specifications (Extract from JIS C 3306)

Type	No. of cores	Conductor			Insulator thickness	Sheath thickness	Conductor resistance (20°C)
		Nominal cross-sectional area	Composition No. of wires/wire diameter	Outside diameter			
Vinyl cabtyre, Round cord	4	0.75mm^2	30/0.18mm	1.1mm	0.6mm	1.0mm	25.1Ω/km

2.2 Network wiring specifications

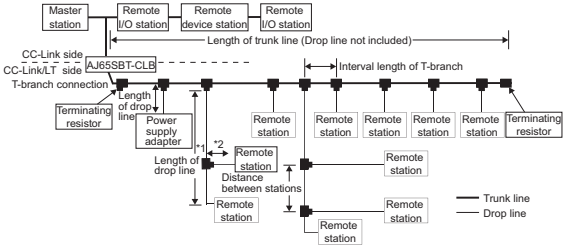
2.2.1 CC-Link network wiring specifications

For the network wiring specifications of CC-Link, refer to the user's manual of the used master module.

2.2.2 CC-Link/LT network wiring specifications

This section describes the system configuration of the CC-Link/LT.

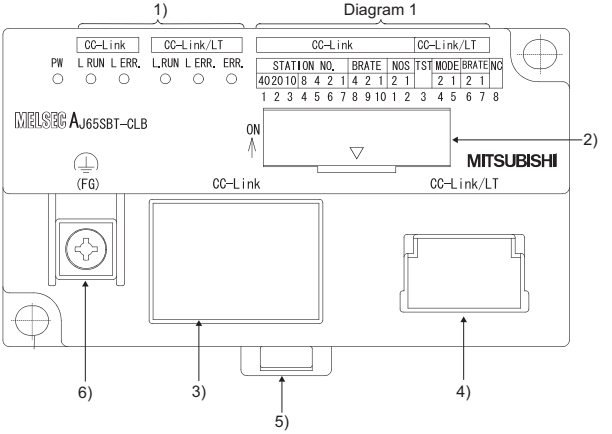
Item	Specifications			Remarks
Transmission speed	2.5 Mbps	625 kbps	156 kbps	-
Distance between stations	Not limited			-
Max. no. of connectable modules per drop line	8 modules			-
Length of trunk line	35 m	100 m	500 m	Cable length between terminating resistors. Length of drop lines not included
T-branch interval	Not limited			-
Max. length of drop line	4 m	16 m	60 m	Max. cable length per branch line
Overall length of drop lines	15 m	50 m	200 m	Total length of all drop lines



*1 The length of drop line includes the length of *2. (The max. length of drop line and overall length of drop lines include the length of *2.)

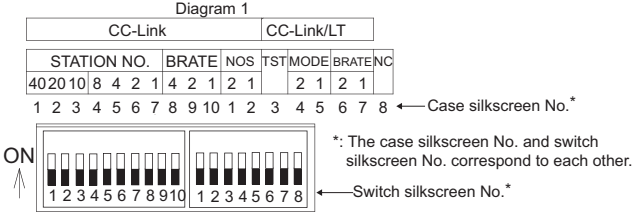
3. PART NAMES AND SETTING

This chapter describes part names.



Number	Name	Description		
1)	LED display	Shows the module status by turning the LED on/off.		
		LED name	Description	
			CC-Link side	CC-Link/LT side
		PW	On: Module normal Off: Module fault or not supplied with power	
		L RUN	On: Data link communication normal Off: Data link communication off (time-out)	<During normal operation> On: Data link being executed Off: Data link stopped <In self-loopback test mode> On: Self-loopback test completed. Off: Self-loopback test failed
		L ERR.	On: CC-Link side switch setting fault Data link communication fault Flicker: CC-Link side switch setting is changed during operation. Off: No faults	<During normal operation> On: Data link error station (detected) Station outside control range detected Flicker: Data link error stations (all stations) Off: No faults <In self-loopback test mode> On: Self-loopback test failed Off: Self-loopback test completed
		ERR.	-	Setting error detection On: CC-Link/LT side switch setting fault Flicker: CC-Link/LT side switch setting is changed during operation. Off: No faults

Diagram 1



*: The case silkscreen No. and switch silkscreen No. correspond to each other.

<table>
<tr><th>Number</th><th>Name</th><th>Description</th></tr>
<tr><td rowspan="2">2)</td><td>Station number setting switches (CC-Link side) STATION NO.</td><td>Use the switches in STATION NO. "10", "20" and "40" to set the tens of the station number.
Use the switches in STATION NO. "1", "2", "4" and "8" to set the units of the station number.
<table>
<tr><th rowspan="2">Station Number</th><th colspan="3">Tens</th><th colspan="4">Units</th></tr>
<tr><th>40</th><th>20</th><th>10</th><th>8</th><th>4</th><th>2</th><th>1</th></tr>
<tr><td>1</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr>
<tr><td>2</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td><td>OFF</td></tr>
<tr><td>3</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td><td>ON</td></tr>
<tr><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td></tr>
<tr><td>10</td><td>OFF</td><td>OFF</td><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td></tr>
<tr><td>11</td><td>OFF</td><td>OFF</td><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr>
<tr><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td></tr>
<tr><td>63</td><td>ON</td><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td><td>ON</td></tr>
</table>
The switches are all factory-set to OFF.
The station number can be set within the range 1 to 63 when two stations are occupied, 1 to 61 when four stations are occupied, or 1 to 57 when eight stations (four occupied stations × two modules) are occupied.
Setting a value other than the above will result in a setting error.
(The "L ERR." LED on the CC-Link side is lit.)</td></tr>
<tr><td>Transmission speed setting switches (CC-Link side) B RATE</td><td>
<table>
<tr><th rowspan="2">Setting Value</th><th colspan="3">Setting Switches</th><th rowspan="2">Transmission Speed</th></tr>
<tr><th>4</th><th>2</th><th>1</th></tr>
<tr><td>0 (factory-set)</td><td>OFF</td><td>OFF</td><td>OFF</td><td>156 kbps</td></tr>
<tr><td>1</td><td>OFF</td><td>OFF</td><td>ON</td><td>625 kbps</td></tr>
<tr><td>2</td><td>OFF</td><td>ON</td><td>OFF</td><td>2.5 Mbps</td></tr>
<tr><td>3</td><td>OFF</td><td>ON</td><td>ON</td><td>5.0 Mbps</td></tr>
<tr><td>4</td><td>ON</td><td>OFF</td><td>OFF</td><td>10 Mbps</td></tr>
</table>
Setting a value other than the above will result in a setting error.
(The "L ERR." LED on the CC-Link side is lit.)</td></tr>
</table>

<table>
<tr><th>Number</th><th>Name</th><th>Description</th></tr>
<tr><td rowspan="3">2)</td><td>Number of occupied stations setting switches (CC-Link side)
NOS: Numbers of Occupied stations</td><td>
<table>
<tr><th rowspan="2">Setting Value</th><th colspan="2">Setting Switches</th><th rowspan="2">Number of occupied stations</th></tr>
<tr><th>2</th><th>1</th></tr>
<tr><td>0 (factory-set)</td><td>OFF</td><td>OFF</td><td>2 stations</td></tr>
<tr><td>1</td><td>OFF</td><td>ON</td><td>4 stations</td></tr>
<tr><td>2</td><td>ON</td><td>OFF</td><td>8 stations
(four occupied stations × two modules)</td></tr>
</table>
Setting a value other than the above will result in a setting error.
(The "L ERR." LED on the CC-Link side is lit.)</td></tr>
<tr><td>Self-loopback test setting switch (CC-Link/LT side)
TST</td><td>OFF: Normal operation mode (factory-set)
ON: Self-loopback test mode</td></tr>
<tr><td>Point mode setting switches (CC-Link/LT side)
MODE</td><td>
<table>
<tr><th rowspan="2">Setting Value</th><th colspan="2">Setting Switches</th><th rowspan="2">Points</th></tr>
<tr><th>2</th><th>1</th></tr>
<tr><td>0 (factory-set)</td><td>OFF</td><td>OFF</td><td>8 points</td></tr>
<tr><td>1</td><td>OFF</td><td>ON</td><td>4 points</td></tr>
<tr><td>2</td><td>ON</td><td>OFF</td><td>16 points</td></tr>
</table>
Setting a value other than the above will result in a setting error.
(The "ERR." LED on the CC-Link/LT side is lit.)</td></tr>
<tr><td></td><td>Transmission speed setting switches (CC-Link/LT side)
B RATE</td><td>
<table>
<tr><th rowspan="2">Setting Value</th><th colspan="2">Setting Switches</th><th rowspan="2">Transmission Speed</th></tr>
<tr><th>2</th><th>1</th></tr>
<tr><td>0 (factory-set)</td><td>OFF</td><td>OFF</td><td>156 kbps</td></tr>
<tr><td>1</td><td>OFF</td><td>ON</td><td>625 kbps</td></tr>
<tr><td>2</td><td>ON</td><td>OFF</td><td>2.5 Mbps</td></tr>
</table>
Setting a value other than the above will result in a setting error.
(The "ERR." LED on the CC-Link/LT side is lit.)</td></tr>
<tr><td>3)</td><td>One-touch connector for communication</td><td>A one-touch connector for communication line connection.
Connect two optional one-touch connector plugs for communication to the connectors during wiring top and bottom.</td></tr>
<tr><td>4)</td><td>CC-Link/LT Interface connector</td><td>Connector for CC-Link/LT communication line connection.</td></tr>
<tr><td>5)</td><td>DIN rail hook</td><td>Used to mount the module to the DIN rail.</td></tr>
<tr><td>6)</td><td>FG terminal</td><td>Ground terminal</td></tr>
</table>

4. MOUNTING AND INSTALLATION

4.1 Handling instruction

This section explains the handling instruction of the module.
Be careful not to drop it or expose the module case to strong impact, since it is made of resin.

4.2 Installation environment

Use the module in the environment that meets the general specifications described in the tailed manual.
Failure to observe this instruction can cause an electric shock, fire, malfunction, damage to the product, or deterioration.
Tighten the module mounting screws and terminal block screw within the following ranges.

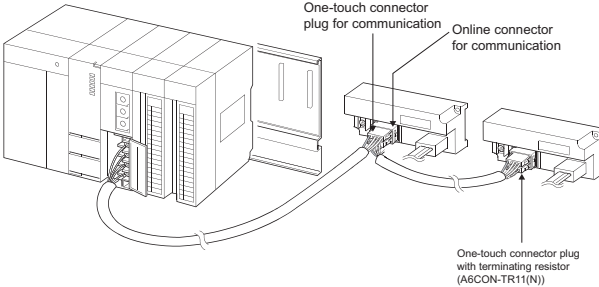
Screw Location	Tightening Torque Range
Module mounting screw (M4 screw)	0.78 to 1.08 N•m
FG terminal block terminal screw (M3 screw)	0.42 to 0.58 N•m

5. WIRING

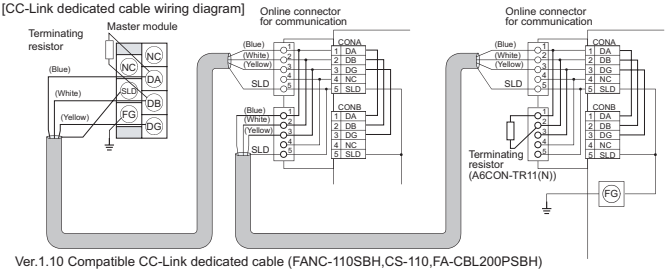
5.1 Wiring of data link cables

5.1.1 Connection of the CC-Link dedicated cables

Connect the CC-Link dedicated cable between the AJ65SBT-CLB and master module as shown below.



[CC-Link dedicated cable wiring diagram]



Ver.1.10 Compatible CC-Link dedicated cable (FANC-110SBH,CS-110,FA-CBL200PSBH)

Point

- For this module, use the Ver. 1.10-compatible CC-Link dedicated cable (FANC-110SBH, CS-110, FA-CBL200PSBH).
  You cannot use the Ver. 1.10-compatible CC-Link dedicated cables other than the above types, CC-Link dedicated cables or CC-Link dedicated, high-performance cables.
- The shield wire of the CC-Link dedicated cable should be connected to "SLD" in each module, and both ends should be grounded through "FG".
  "SLD" and "FG" are connected inside the module.

5.1.2 How to wire the CC-Link one-touch connector plug

For details of how to wire the one-touch connector plug, refer to the AJ65SBT-CLB CC-Link - CC-Link/LT Bridge Module User's Manual.

5.1.3 Connection of modules by CC-Link/LT connection cables

For details of how to connect the modules by the CC-Link/LT connection cables, refer to the AJ65SBT-CLB CC-Link - CC-Link/LT Bridge Module User's Manual.

(1) The station number is not relevant to the order of connecting the connection cables.

(2) Be sure to place the AJ65SBT-CLB at one end of the main line. Also, connect the AJ65SBT-CLB side terminating resistor within 20cm of the AJ65SBT-CLB.

(3) Always connect terminating resistors at both ends of the CC-Link/LT trunk line.

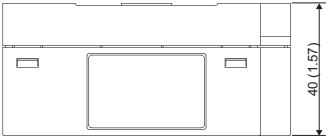
(4) For required number of the connectors, refer to the AJ65SBT-CLB CC-Link - CC-Link/LT Bridge Module User's Manual.

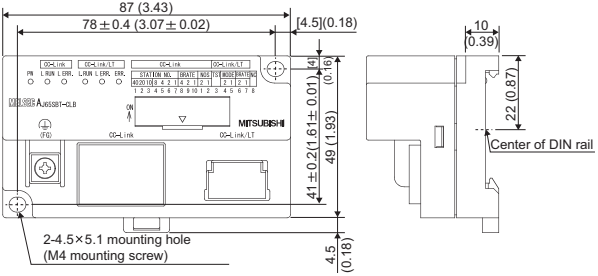
5.1.4 How to mount the CC-Link/LT connection cable connector

For details of how to mount the CC-Link/LT connection cable connector, refer to the AJ65SBT-CLB CC-Link - CC-Link/LT Bridge Module User's Manual.

6. EXTERNAL DIMENSIONS

[AJ65SBT-CLB]





Unit: mm(inch)

Memo

Memo

WARRANTY

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

Country/Region	Sales office/Tel
U.S.A	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway Vernon Hills, IL 60061, U.S.A. Tel : +1-847-478-2100
Brazil	MELCO-TEC Representacao Comercial e Assessoria Tecnica Ltda. Av. Paulista, 1439, cj74, Bela Vista, Sao Paulo CEP: 01311-200 - SP Brazil Tel : +55-11-3146-2200
Germany	Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8 D-40880 Ratingen, Germany Tel : +49-2102-486-0
U.K	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire., AL10 8XB, U.K. Tel : +44-1707-276100
Italy	Mitsubishi Electric Europe B.V. Italian Branch Viale Colleoni 7-20041 Agrate Brianza (Milano), Italy Tel : +39-039-60531
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80 E-08190 Sant Cugat del Valles (Barcelona), Spain Tel : +34-93-565-3131
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France Tel : +33-1-5568-5568
Czech Republic	Mitsubishi Electric Europe B.V.-o.s.-Czech office Avenir Business Park, Radlicka 714/113a CZ-158 00 Praha 5 Tel : +420-251-551-470
Poland	Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 50 32-083 Balice, Poland Tel : +48-12-630-47-00
Russia	Mitsubishi Electric Europe B.V. Russian branch St.Petersburg office Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua", office 720; 195027, St. Petersburg, Russia Tel : +7-812-633-3497

Country/Region	Sales office/Tel
South Africa	Circuit Breaker Industries Ltd. 9 Derrick Road, Spartan, Gauteng PO Box 100, Kempton Park 1620, South Africa Tel : +27-11-977-0770
China	Mitsubishi Electric Automation (China) Ltd. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center Shanghai China Tel : +86-21-2322-3030
Taiwan	Setsuyo Enterprise Co., Ltd. 6F., No.105, Wugong 3rd, Wugu Dist, New Taipei City 24889, Taiwan, R.O.C. Tel : +886-2-2299-2499
Korea	Mitsubishi Electric Automation Korea Co., Ltd. 1480-6, Gayang-dong, Gangseo-ku Seoul 157-200, Korea Tel : +82-2-3660-9530
Singapore	Mitsubishi Electric Asia Pte, Ltd-Industrial Division 307 Alexandra Road #05-01/02, Mitsubishi Electric Building, Singapore Tel : +65-6470-2480
Thailand	Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Soi Serithai 54, T.Kannayao, A.Kannayao, Bangkok 10230 Thailand Tel : +66-2-906-3238
Indonesia	P. T. Autoteknindo Sumber Makmur Muara Karang Selatan, Block A / Utara No.1 Kav. No. 11, Kawasan Industri Pergudangan, Jakarta-Utara 14440, P.O.Box 5045, Indonesia Tel : +62-21-663-0833
India	Mitsubishi Electric India Pvt. Ltd. 2nd Floor, Tower A & B, Cyber Greens, DLF Cyber City, DLF Phase-III, Gurgaon-122002 Haryana, India Tel : +91-124-463-0300
Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road PO BOX11, Rydalmere, N.S.W 2116, Australia Tel : +61-2-9684-7777

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.